

**IN THE CLAIMS:**

This listing of claims will replace all previous versions and listings of claims in the application.

1. (CURRENTLY AMENDED) A compass with electromagnetic half-shell energy transmission and optoelectronic data transmission, characterized in that in the half-shell transformer (14,16) the at least one winding on the primary half-shell is connected via an H-bridge circuit (12) to controllable input voltage source (10), and at least one secondary winding is provided on the other half-shell coil, which secondary winding is provided with a plurality of taps for the voltage supply of, ~~among other things,~~ the heating, the internal electronics controlling the voltage supply, and the gyrosphere motor supply.

2. (ORIGINALLY FILED) The compass according to claim 1, characterized by a plurality of intertwined bifilar coil windings with a different number of windings at least on the secondary half-shell coil.

3. (ORIGINALLY FILED) The compass according to claim 1, characterized in that due to an increased energy requirement at the secondary side, the control device of the voltage level of the input voltage source (10) is connected to the optical signal transmission path (30,32) to receive control data.

4. (ORIGINALLY FILED) The compass according to claim 1, characterized in that the control device (20) of the amplitude areas of the rectangular signal generated by the H-bridge circuit (12) is provided with a sensor (22) for detecting the generated rectangular signals at (one of) the primary winding(s) to avoid magnetic losses on the primary side, especially if there are unequal flank slopes, for the transmission of corrective control data to the H-bridge circuit.

5. (ORIGINALLY FILED) The compass according to claim 4, characterized in that the H-bridge is provided with MOSFET transistors with boot strap loaders.

6. (ORIGINALLY FILED) The compass according to claim 1, characterized in that an encoder is provided on the half-shell transformer for detecting the angular position.

Applicant thanks the Examiner for the indication of allowability. Applicant has corrected the portions of the application to which the Examiner objected and that the Examiner rejected.

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In view of the foregoing amendments and remarks, the subject application is believed to be in condition for allowance. Therefore, further consideration and allowance of the subject application is requested. If the Examiner considers personal contact advantageous to the disposition of this case, please call Applicant's Attorney, David E. Henn at (585) 325-4618, Shlesinger & Fitzsimmons, Rochester, New York 14604, or fax him at (585) 232-5997.

Respectfully submitted,

A handwritten signature in black ink, appearing to read 'David E. Henn', is written over a horizontal line.

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